

101736,018

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LOGINID:SSSPTASXH1641

PASSWORD:

TERMINAL (ENTER 1, 2, 3, OR ?):2

* * * * * * * * * * Welcome to STN International * * * * * * * * * * *

NEWS 1 Web Page URLs for STN Seminar Schedule - N. America
NEWS 2 "Ask CAS" for self-help around the clock
NEWS 3 FEB 25 CA/CAPLUS - Russian Agency for Patents and Trademarks
(ROSPATENT) added to list of core patent offices covered
NEWS 4 FEB '28 PATDPAFULL - New display fields provide for legal status
data from INPADOC
NEWS 5 FEB 28 BABS - Current-awareness alerts (SDIs) available
NEWS 6 FEB 28 MEDLINE/LMEDLINE reloaded
NEWS 7 MAR 02 GBFULL: New full-text patent database on STN
NEWS 8 MAR 03 REGISTRY/ZREGISTRY - Sequence annotations enhanced
NEWS 9 MAR 03 MEDLINE file segment of TOXCENTER reloaded
NEWS 10 MAR 22 KOREPAT now updated monthly; patent information enhanced
NEWS 11 MAR 22 Original IDE display format returns to REGISTRY/ZREGISTRY
NEWS 12 MAR 22 PATDPASPC - New patent database available
NEWS 13 MAR 22 REGISTRY/ZREGISTRY enhanced with experimental property tags
NEWS 14 APR 04 EPFULL enhanced with additional patent information and new
fields
NEWS 15 APR 04 EMBASE - Database reloaded and enhanced

NEWS EXPRESS JANUARY 10 CURRENT WINDOWS VERSION IS V7.01a, CURRENT
MACINTOSH VERSION IS V6.0c(ENG) AND V6.0Jc(JP),
AND CURRENT DISCOVER FILE IS DATED 10 JANUARY 2005

NEWS HOURS STN Operating Hours Plus Help Desk Availability
NEWS INTER General Internet Information
NEWS LOGIN Welcome Banner and News Items
NEWS PHONE Direct Dial and Telecommunication Network Access to STN
NEWS WWW CAS World Wide Web Site (general information)

Enter NEWS followed by the item number or name to see news on that specific topic.

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FILE 'HOME' ENTERED AT 12:17:27 ON 07 APR 2005

=> FIL REGISTRY
COST IN U.S. DOLLARS

FULL ESTIMATED COST

FILE 'REGISTRY' ENTERED AT 12:17:35 ON 07 APR 2005
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.
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Property values tagged with IC are from the ZIC/VINITI data file
provided by InfoChem.

STRUCTURE FILE UPDATES: 6 APR 2005 HIGHEST RN 848027-68-9
DICTIONARY FILE UPDATES: 6 APR 2005 HIGHEST RN 848027-68-9

TSCA INFORMATION NOW CURRENT THROUGH JANUARY 18, 2005

Please note that search-term pricing does apply when
conducting SmartSELECT searches.

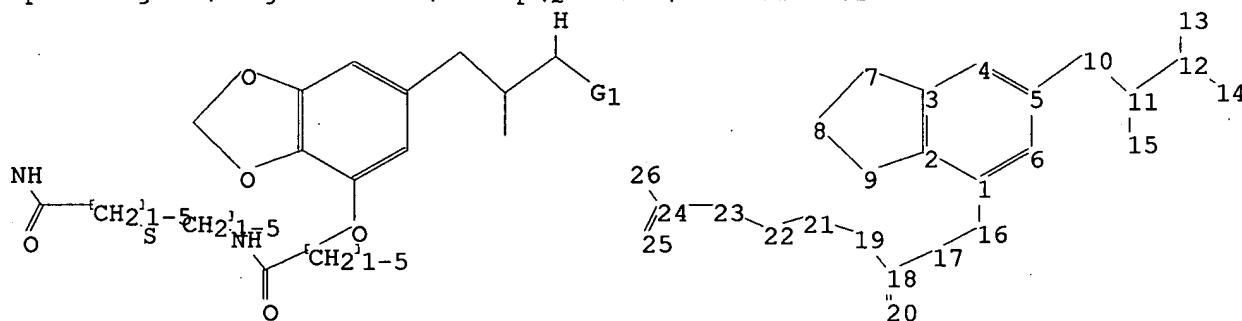
*
* The CA roles and document type information have been removed from *
* the IDE default display format and the ED field has been added, *
* effective March 20, 2005. A new display format, IDERL, is now *
* available and contains the CA role and document type information. *
*

Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. For more
information enter HELP PROP at an arrow prompt in the file or refer
to the file summary sheet on the web at:
<http://www.cas.org/ONLINE/DBSS/registryss.html>

=>

Uploading C:\Program Files\Stnexp\Queries\10736018.str



chain nodes :

10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26

ring nodes :

1 2 3 4 5 6 7 8 9

chain bonds :

1-16 5-10 10-11 11-12 11-15 12-13 12-14 16-17 17-18 18-19 18-20 19-21
21-22 22-23 23-24 24-25 24-26

ring bonds :

1-2 1-6 2-3 2-9 3-4 3-7 4-5 5-6 7-8 8-9

exact/norm bonds :

1-16 12-14 18-19 18-20 24-25 24-26

exact bonds :

2-9 3-7 5-10 7-8 8-9 10-11 11-12 11-15 12-13 16-17 17-18 19-21 21-22
22-23 23-24

normalized bonds :
1-2 1-6 2-3 3-4 4-5 5-6
isolated ring systems :
containing 1 :

G1:H,CH3,Et

Hydrogen count :

4:= exact 1 6:= exact 1 8:= exact 2 10:= exact 2 11:= exact 1 15:= exact 3

Match level :

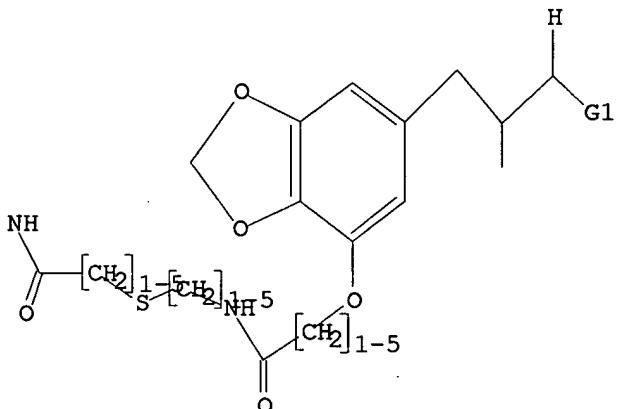
1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:CLASS
11:CLASS 12:CLASS 13:CLASS 14:CLASS 15:CLASS 16:CLASS 17:CLASS 18:CLASS
19:CLASS 20:CLASS 21:CLASS 22:CLASS 23:CLASS 24:CLASS 25:CLASS 26:CLASS

L1 STRUCTURE UPLOADED

=> d 11

L1 HAS NO ANSWERS

L1 STR



G1 H,Me,Et

Structure attributes must be viewed using STN Express query preparation.

=> s 11

SAMPLE SEARCH INITIATED 12:18:09 FILE 'REGISTRY'

SAMPLE SCREEN SEARCH COMPLETED - 0 TO ITERATE

100.0% PROCESSED 0 ITERATIONS
SEARCH TIME: 00.00.01

0 ANSWERS

FULL FILE PROJECTIONS: ONLINE **COMPLETE**
BATCH **COMPLETE**

PROJECTED ITERATIONS: 0 TO 0

PROJECTED ANSWERS: 0 TO 0

L2 0 SEA SSS SAM L1

=> s 11 sss full

FULL SEARCH INITIATED 12:18:30 FILE 'REGISTRY'

FULL SCREEN SEARCH COMPLETED - 2 TO ITERATE

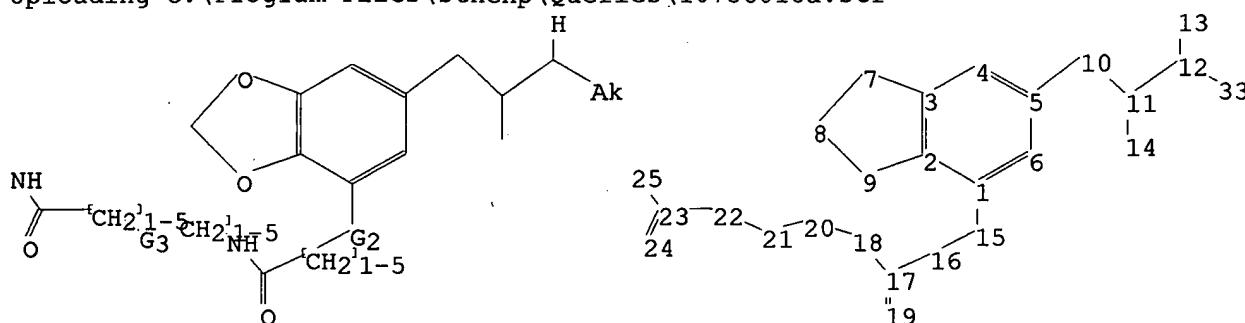
100.0% PROCESSED 2 ITERATIONS
SEARCH TIME: 00.00.01

0 ANSWERS

L3 0 SEA SSS FUL L1

=>

Uploading C:\Program Files\Stnexp\Queries\10736018a.str



chain nodes :

10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 33

ring nodes :

1 2 3 4 5 6 7 8 9

chain bonds :

1-15 5-10 10-11 11-12 11-14 12-13 12-33 15-16 16-17 17-18 17-19 18-20
20-21 21-22 22-23 23-24 23-25

ring bonds :

1-2 1-6 2-3 2-9 3-4 3-7 4-5 5-6 7-8 8-9

exact/norm bonds :

1-15 12-33 15-16 17-18 17-19 20-21 21-22 23-24 23-25

exact bonds :

2-9 3-7 5-10 7-8 8-9 10-11 11-12 11-14 12-13 16-17 18-20 22-23

normalized bonds :

1-2 1-6 2-3 3-4 4-5 5-6

isolated ring systems :

containing 1 :

G1:H,CH3,Et

G2:O,S

G3:O,S,N

Hydrogen count :

4:= exact 1 6:= exact 1 8:= exact 2 10:= exact 2 11:= exact 1 14:= exact 3

Match level :

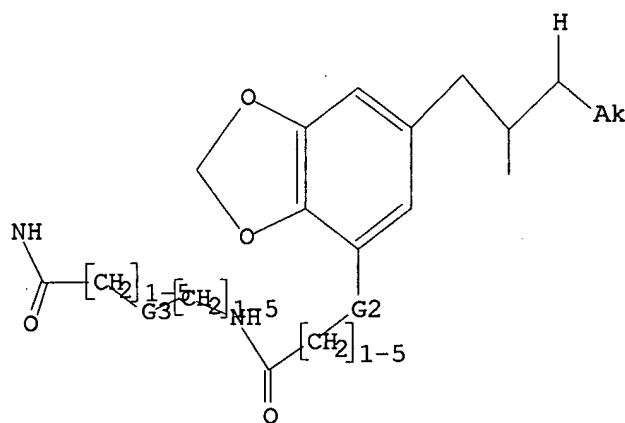
1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:CLASS
11:CLASS 12:CLASS 13:CLASS 14:CLASS 15:CLASS 16:CLASS 17:CLASS 18:CLASS
19:CLASS 20:CLASS 21:CLASS 22:CLASS 23:CLASS 24:CLASS 25:CLASS 33:CLASS

L4 STRUCTURE UPLOADED

=> d 14

L4 HAS NO ANSWERS

L4 STR



G1 H,Me,Et

G2 O,S

G3 O,S,N

Structure attributes must be viewed using STN Express query preparation.

=> s 14

SAMPLE SEARCH INITIATED 12:29:55 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED - 4 TO ITERATE

100.0% PROCESSED 4 ITERATIONS
SEARCH TIME: 00.00.01

0 ANSWERS

FULL FILE PROJECTIONS: ONLINE **COMPLETE**
BATCH **COMPLETE**

PROJECTED ITERATIONS: 4 TO 200
PROJECTED ANSWERS: 0 TO 0

L5 0 SEA SSS SAM L4

=> s 14 sss full
FULL SEARCH INITIATED 12:30:10 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 28 TO ITERATE

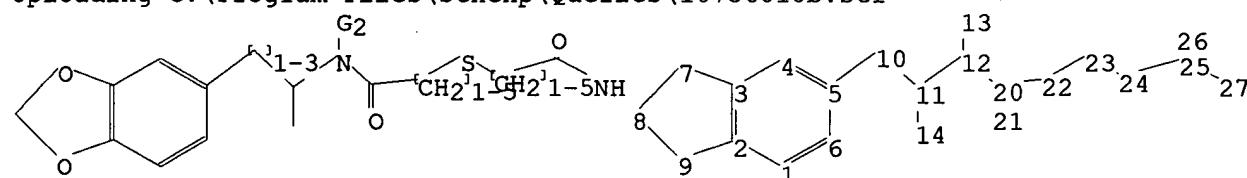
100.0% PROCESSED 28 ITERATIONS
SEARCH TIME: 00.00.01

0 ANSWERS

L6 0 SEA SSS FUL L4

=>

Uploading C:\Program Files\Stnexp\Queries\10736018b.str



chain nodes :

10 11 12 13 14 20 21 22 23 24 25 26 27

ring nodes :

1 2 3 4 5 6 7 8 9
 chain bonds :
 5-10 10-11 11-12 11-14 12-13 12-20 20-21 20-22 22-23 23-24 24-25 25-26
 25-27
 ring bonds :
 1-2 1-6 2-3 2-9 3-4 3-7 4-5 5-6 7-8 8-9
 exact/norm bonds :
 11-12 12-13 12-20 20-21 25-26 25-27
 exact bonds :
 2-9 3-7 5-10 7-8 8-9 10-11 11-14 20-22 22-23 23-24 24-25
 normalized bonds :
 1-2 1-6 2-3 3-4 4-5 5-6
 isolated ring systems :
 containing 1 :

G1:H,CH3,Et

G2:CH3,Et,H

Hydrogen count :

1:= exact 1 4:= exact 1 6:= exact 1 8:= exact 2 10:= exact 2 11:= exact 1
 14:= exact 3

Match level :

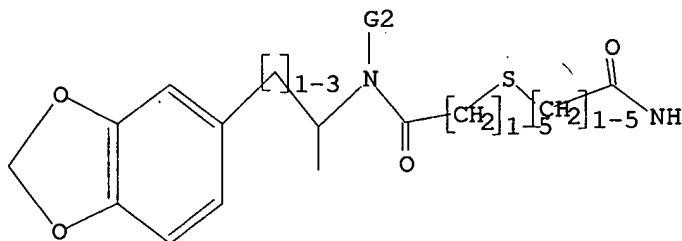
1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:CLASS
 11:CLASS 12:CLASS 13:CLASS 14:CLASS 20:CLASS 21:CLASS 22:CLASS 23:CLASS
 24:CLASS 25:CLASS 26:CLASS 27:CLASS

L7 STRUCTURE UPLOADED

=> d 17

L7 HAS NO ANSWERS

L7 STR



G1 H,Me,Et

G2 Me,Et,H

Structure attributes must be viewed using STN Express query preparation.

=> s 17

SAMPLE SEARCH INITIATED 12:40:44 FILE 'REGISTRY'
 SAMPLE SCREEN SEARCH COMPLETED - 3 TO ITERATE

100.0% PROCESSED 3 ITERATIONS
 SEARCH TIME: 00.00.01

0 ANSWERS

FULL FILE PROJECTIONS: ONLINE **COMPLETE**

100.0% PROCESSED 297 ITERATIONS
SEARCH TIME: 00.00.01

21 ANSWERS

FULL FILE PROJECTIONS: ONLINE **COMPLETE**
BATCH **COMPLETE**
PROJECTED ITERATIONS: 4907 TO 6973
PROJECTED ANSWERS: 145 TO 693

L11 21 SEA SSS SAM L10

=> s 110 sss full
FULL SEARCH INITIATED 12:43:13 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 5966 TO ITERATE

100.0% PROCESSED 5966 ITERATIONS 598 ANSWERS
SEARCH TIME: 00.00.01

L12 598 SEA SSS FUL L10

=> FIL CAPLUS
COST IN U.S. DOLLARS SINCE FILE TOTAL
FULL ESTIMATED COST ENTRY SESSION
662.09 662.30

FILE 'CAPLUS' ENTERED AT 12:43:30 ON 07 APR 2005
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FILE COVERS 1907 - 7 Apr 2005 VOL 142 ISS 15
FILE LAST UPDATED: 6 Apr 2005 (20050406/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> s 112
L13 2101 L12

=> s 113 and determin? or detect?
786021 DETERMIN?
598629 DET
37273 DETS
632931 DET
(DET OR DETS)
1952526 DETD
318256 DETG
1471276 DETN
130107 DETNS
1547459 DETN
(DETN OR DETNS)
3895108 DETERMIN?

(DETERMIN? OR DET OR DETD OR DETG OR DETN)
1451462 DETECT?
L14 1451752 L13 AND DETERMIN? OR DETECT?

=> s l13 and (determin? or detect?)
786021 DETERMIN?
598629 DET
37273 DETS
632931 DET
(DET OR DETS)
1952526 DETD
318256 DETG
1471276 DETN
130107 DETNS
1547459 DETN
(DETN OR DETNS)
3895108 DETERMIN?
(DETERMIN? OR DET OR DETD OR DETG OR DETN)
1451462 DETECT?
L15 731 L13 AND (DETERMIN? OR DETECT?)

=> s l15 and (protein or label)
1730008 PROTEIN
1200777 PROTEINS
2008778 PROTEIN
(PROTEIN OR PROTEINS)
56478 LABEL
19010 LABELS
67557 LABEL
(LABEL OR LABELS)
L16 59 L15 AND (PROTEIN OR LABEL)

=> s l16 and (ecstasy or ?amphetamine)
720 ECSTASY
23840 ?AMPHETAMINE
L17 54 L16 AND (ECSTASY OR ?AMPHETAMINE)

=> s l17 and antibody
275082 ANTIBODY
318420 ANTIBODIES
429627 ANTIBODY
(ANTIBODY OR ANTIBODIES)
L18 16 L17 AND ANTIBODY

=> s l18 and immunogen
5878 IMMUNOGEN
3272 IMMUNOGENS
8202 IMMUNOGEN
(IMMUNOGEN OR IMMUNOGENS)
L19 8 L18 AND IMMUNOGEN

=> d 119 ibib abs hitstr tot

L19 ANSWER 1 OF 8 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 2003:693233 CAPLUS
DOCUMENT NUMBER: 139:207730
TITLE: **Antibodies for detecting amphetamine derivatives, compounds useful in antibody production, reagent kits, and detection methods for amphetamine derivatives**

INVENTOR(S): Hui, Raymond A.
PATENT ASSIGNEE(S): Roche Diagnostics G.m.b.H., Germany; F. Hoffmann-La

Roche A.-G.
 SOURCE: Eur. Pat. Appl., 30 pp.
 CODEN: EPXXDW
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|--|------|----------|-----------------|------------|
| EP 1340981 | A2 | 20030903 | EP 2003-3298 | 20030225 |
| R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK | | | | |
| US 2003175995 | A1 | 20030918 | US 2002-87469 | 20020301 |
| CA 2419696 | AA | 20030901 | CA 2003-2419696 | 20030224 |
| JP 2004002316 | A2 | 20040108 | JP 2003-49924 | 20030226 |
| PRIORITY APPLN. INFO.: | | | US 2002-87469 | A 20020301 |

OTHER SOURCE(S): MARPAT 139:207730

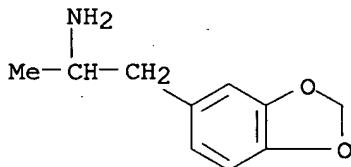
AB Compds. including haptens, intermediates, and **immunogens** that are useful in the production of **antibodies** specific for the methylenedioxy class of **amphetamine** derivs. are described. **Antibodies** specific for the methylenedioxy class of **amphetamine** derivs., reagent kits containing **antibodies** specific for the methylenedioxy class of **amphetamine** derivs., methods of producing **antibodies** specific for the methylenedioxy class of **amphetamine** derivs., and methods of **detecting** analytes including members of the methylenedioxy class of **amphetamine** derivs. are also described.

IT 4764-17-4, MDA 42542-10-9, MDMA 42542-10-9D,
 Ecstasy, derivs. 74698-36-5, MDPA 82801-81-8,
 MDEA

RL: ANT (Analyte); ANST (Analytical study)
 (**antibodies** for **detecting** **amphetamine** derivs., compds. for **antibody** production, reagent kits, and **detection** methods for **amphetamine** derivs.)

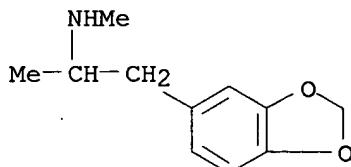
RN 4764-17-4 CAPLUS

CN 1,3-Benzodioxole-5-ethanamine, α -methyl- (9CI) (CA INDEX NAME)



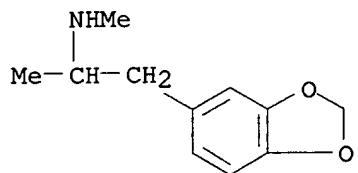
RN 42542-10-9 CAPLUS

CN 1,3-Benzodioxole-5-ethanamine, N, α -dimethyl- (9CI) (CA INDEX NAME)

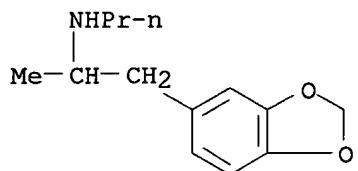


RN 42542-10-9 CAPLUS

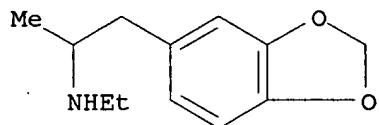
CN 1,3-Benzodioxole-5-ethanamine, N, α -dimethyl- (9CI) (CA INDEX NAME)



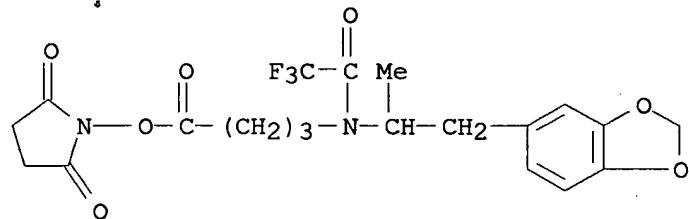
RN 74698-36-5 CAPLUS
 CN 1,3-Benzodioxole-5-ethanamine, α -methyl-N-propyl- (9CI) (CA INDEX NAME)



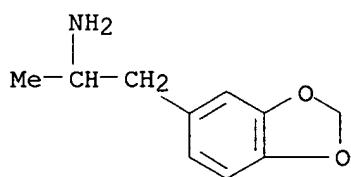
RN 82801-81-8 CAPLUS
 CN 1,3-Benzodioxole-5-ethanamine, N-ethyl- α -methyl- (9CI) (CA INDEX NAME)



IT 590346-15-9DP, carrier **protein** conjugates
 RL: BUU (Biological use, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)
 (**antibodies for detecting amphetamine**
 derivs., compds. for **antibody** production, reagent kits, and
 detection methods for amphetamine derivs.)
 RN 590346-15-9 CAPLUS
 CN Acetamide, N-[2-(1,3-benzodioxol-5-yl)-1-methylethyl]-N-[4-[(2,5-dioxo-1-pyrrolidinyl)oxy]-4-oxobutyl]-2,2,2-trifluoro- (9CI) (CA INDEX NAME)



IT 590346-12-6
 RL: RCT (Reactant); RACT (Reactant or reagent)
 (**antibodies for detecting amphetamine**
 derivs., compds. for **antibody** production, reagent kits, and
 detection methods for amphetamine derivs.)
 RN 590346-12-6 CAPLUS
 CN 1,3-Benzodioxole-5-ethanamine, α -methyl-, hydrobromide (9CI) (CA INDEX NAME)



● HBr

IT 590346-11-5P 590346-13-7P 590346-14-8P

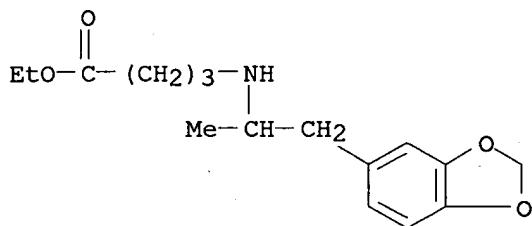
590346-15-9P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(antibodies for detecting amphetamine derivs., compds. for antibody production, reagent kits, and detection methods for amphetamine derivs.)

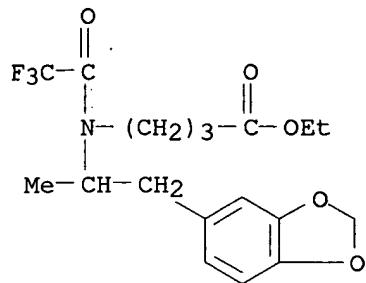
RN 590346-11-5 CAPLUS

CN Butanoic acid, 4-[[2-(1,3-benzodioxol-5-yl)-1-methylethyl]amino]-, ethyl ester (9CI) (CA INDEX NAME)



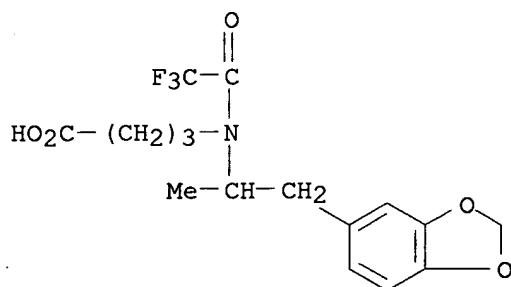
RN 590346-13-7 CAPLUS

CN Butanoic acid, 4-[(2-(1,3-benzodioxol-5-yl)-1-methylethyl)(trifluoroacetyl)amino]-, ethyl ester (9CI) (CA INDEX NAME)



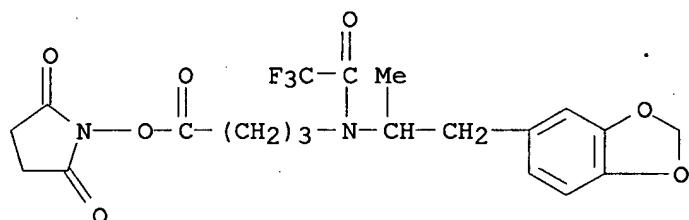
RN 590346-14-8 CAPLUS

CN Butanoic acid, 4-[(2-(1,3-benzodioxol-5-yl)-1-methylethyl)(trifluoroacetyl)amino]- (9CI) (CA INDEX NAME)



RN 590346-15-9 CAPLUS

CN Acetamide, N-[2-(1,3-benzodioxol-5-yl)-1-methylethyl]-N-[4-[(2,5-dioxo-1-pyrrolidinyl)oxy]-4-oxobutyl]-2,2,2-trifluoro- (9CI) (CA INDEX NAME)



IT 66142-89-0

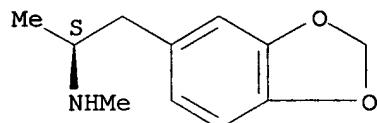
RL: ANT (Analyte); BSU (Biological study, unclassified); ANST (Analytical study); BIOL (Biological study)

(cross-reactivity; antibodies for detecting amphetamine derivs., compds. for antibody production, reagent kits, and detection methods for amphetamine derivs.)

RN 66142-89-0 CAPLUS

CN 1,3-Benzodioxole-5-ethanamine, N, α -dimethyl-, (α S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).



L19 ANSWER 2 OF 8 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 2003:693232 CAPLUS

DOCUMENT NUMBER: 139:207729

TITLE:

Amphetamine derivatives, antibodies
to the derivatives, reagent kits, methods of producing
the **antibodies**, and methods of
detecting the derivatives

INVENTOR(S): Hui, Raymond A.; Root, Richard T.; Vitone, Stephan S.
PATENT ASSIGNEE(S): Roche Diagnostics G.m.b.H., Germany; F. Hoffmann-La Roche A.-G.

SOURCE: Eur. Pat. Appl., 34 pp.

CODEN: EPXXDW

Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 2

PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|--|------|----------|-----------------|------------|
| EP 1340980 | A1 | 20030903 | EP 2003-3297 | 20030225 |
| R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK | | | | |
| US 2003170917 | A1 | 20030911 | US 2002-87612 | 20020301 |
| CA 2419698 | AA | 20030901 | CA 2003-2419698 | 20030224 |
| JP 2004123692 | A2 | 20040422 | JP 2003-49992 | 20030226 |
| PRIORITY APPLN. INFO.: | | | US 2002-87612 | A 20020301 |

OTHER SOURCE(S): MARPAT 139:207729

AB Compds. including haptens, intermediates, and **immunogens** that are useful in the production of **antibodies** specific for the methylenedioxy class of **amphetamine** derivs. are described. **Antibodies** specific for the methylenedioxy class of **amphetamine** derivs., reagent kits containing **antibodies** specific for the methylenedioxy class of **amphetamine** derivs., methods of producing **antibodies** specific for the methylenedioxy class of **amphetamine** derivs., and methods of **detecting** analytes including members of the methylenedioxy class of **amphetamine** derivs. are also described.

IT 42542-10-9, Ecstasy 42542-10-9D,

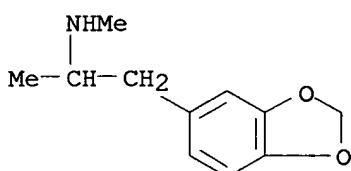
Ecstasy, derivs. 82801-81-8, MDEA

RL: ANT (Analyte); ANST (Analytical study)

(**amphetamine** derivs., anti-derivative **antibodies**, reagent kits, **antibody** production, and derivative **detection** methods)

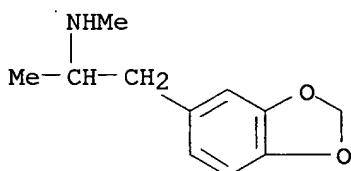
RN 42542-10-9 CAPLUS

CN 1,3-Benzodioxole-5-ethanamine, N, α -dimethyl- (9CI) (CA INDEX NAME)



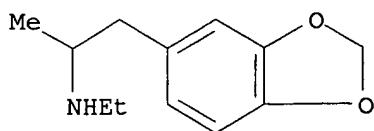
RN 42542-10-9 CAPLUS

CN 1,3-Benzodioxole-5-ethanamine, N, α -dimethyl- (9CI) (CA INDEX NAME)



RN 82801-81-8 CAPLUS

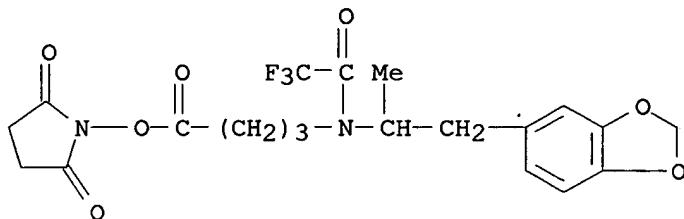
CN 1,3-Benzodioxole-5-ethanamine, N-ethyl- α -methyl- (9CI) (CA INDEX NAME)



IT **590346-15-9DP**, carrier **protein** conjugates
 RL: BUU (Biological use, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)
 (**amphetamine** derivs., anti-derivative **antibodies**, reagent kits, **antibody** production, and derivative **detection** methods)

RN 590346-15-9 CAPLUS

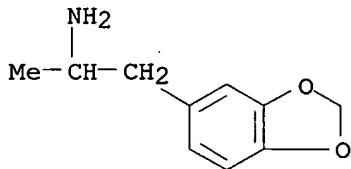
CN Acetamide, N-[2-(1,3-benzodioxol-5-yl)-1-methylethyl]-N-[4-[(2,5-dioxo-1-pyrrolidinyl)oxy]-4-oxobutyl]-2,2,2-trifluoro- (9CI) (CA INDEX NAME)



IT **590346-12-6**
 RL: RCT (Reactant); RACT (Reactant or reagent)
 (**amphetamine** derivs., anti-derivative **antibodies**, reagent kits, **antibody** production, and derivative **detection** methods)

RN 590346-12-6 CAPLUS

CN 1,3-Benzodioxole-5-ethanamine, α -methyl-, hydrobromide (9CI) (CA INDEX NAME)

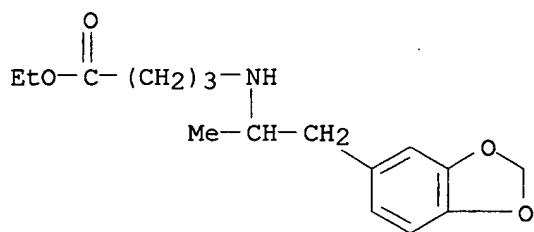


● HBr

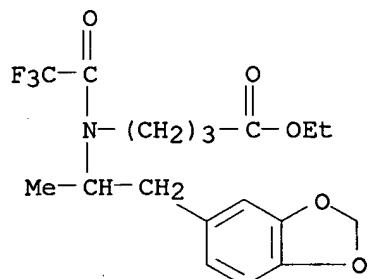
IT **590346-11-5P** **590346-13-7P** **590346-14-8P**
590346-15-9P
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
 (**amphetamine** derivs., anti-derivative **antibodies**, reagent kits, **antibody** production, and derivative **detection** methods)

RN 590346-11-5 CAPLUS

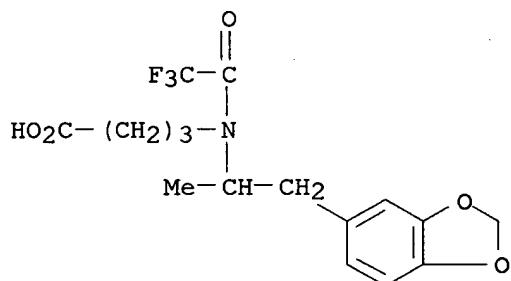
CN Butanoic acid, 4-[[2-(1,3-benzodioxol-5-yl)-1-methylethyl]amino]-, ethyl ester (9CI) (CA INDEX NAME)



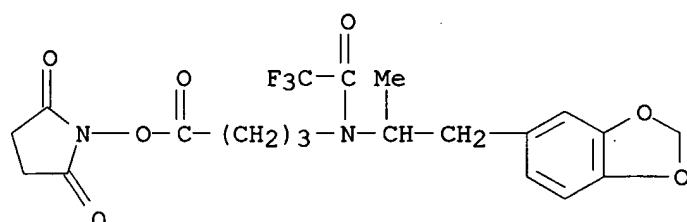
RN 590346-13-7 CAPLUS
 CN Butanoic acid, 4-[(2-(1,3-benzodioxol-5-yl)-1-methylethyl)(trifluoroacetyl)amino]-, ethyl ester (9CI) (CA INDEX NAME)



RN 590346-14-8 CAPLUS
 CN Butanoic acid, 4-[(2-(1,3-benzodioxol-5-yl)-1-methylethyl)(trifluoroacetyl)amino]- (9CI) (CA INDEX NAME)



RN 590346-15-9 CAPLUS
 CN Acetamide, N-[2-(1,3-benzodioxol-5-yl)-1-methylethyl]-N-[4-[(2,5-dioxo-1-pyrrolidinyl)oxy]-4-oxobutyl]-2,2,2-trifluoro- (9CI) (CA INDEX NAME)



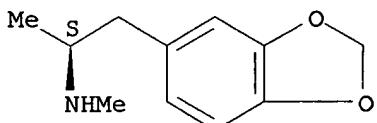
IT 66142-89-0 74698-36-5, MDPB
 RL: ANT (Analyte); BSU (Biological study, unclassified); ANST (Analytical study); BIOL (Biological study)

(cross-reactivity; **amphetamine** derivs., anti-derivative antibodies, reagent kits, antibody production, and derivative detection methods)

RN 66142-89-0 CAPLUS

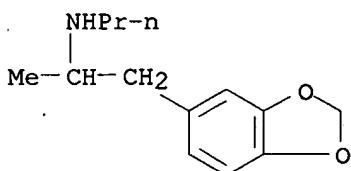
CN 1,3-Benzodioxole-5-ethanamine, N, α -dimethyl-, (α S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).



RN 74698-36-5 CAPLUS

CN 1,3-Benzodioxole-5-ethanamine, α -methyl-N-propyl- (9CI) (CA INDEX NAME)

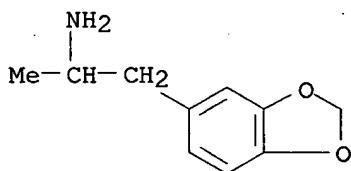


IT 4764-17-4P, MDA

RL: ANT (Analyte); BSU (Biological study, unclassified); RCT (Reactant); SPN (Synthetic preparation); ANST (Analytical study); BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent)
(cross-reactivity; **amphetamine** derivs., anti-derivative antibodies, reagent kits, antibody production, and derivative detection methods)

RN 4764-17-4 CAPLUS

CN 1,3-Benzodioxole-5-ethanamine, α -methyl- (9CI) (CA INDEX NAME)



REFERENCE COUNT:

4

THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L19 ANSWER 3 OF 8 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 2003:488680 CAPLUS

DOCUMENT NUMBER: 139:48560

TITLE: Method and kit for detecting, or determining, 3,4-methylenedioxymethamphetamine

INVENTOR(S): McConnell, Robert Ivan; Benchikh, El Ouard; Fitzgerald, Stephen P.; Lamont, John Victor

PATENT ASSIGNEE(S): Randox Laboratories Ltd., UK

SOURCE: Eur. Pat. Appl., 25 pp.

CODEN: EPXXDW

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|---|------|----------|-----------------|------------|
| EP 1321772 | A1 | 20030625 | EP 2002-80462 | 20021217 |
| R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, SK | | | | |
| CN 1429844 | A | 20030716 | CN 2002-139960 | 20021220 |
| US 2004121400 | A1 | 20040624 | US 2002-326742 | 20021220 |
| | | | EP 2001-205058 | A 20011220 |

PRIORITY APPLN. INFO.:

MARPAT 139:48560

OTHER SOURCE(S):

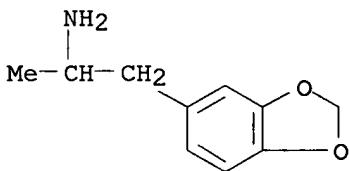
AB The present invention describes a hapten derivatized with a crosslinker at the N-position of 3,4-methylenedioxymethamphetamine (MDMA). The present invention provides an immunogen comprising the aforementioned hapten, coupled to an antigenicity-conferring carrier material, as well as, conjugates comprising the aforementioned hapten covalently bonded to a detectable labeling agent. In addition, the present invention concerns antibodies raised against the aforementioned immunogens. Finally, the present invention relates to methods and kits for detecting or determining MDMA and N-alkylated derivs. of methylenedioxymethamphetamine in biol. fluids. The antibodies of the present invention do not significantly cross-react with amphetamine and methamphetamine. Haptens and immunogens and horseradish peroxidase-labeled hapten reagents were prepared from (3,4-methylenedioxymethamphetamine)phenylacetic acid for the development of competitive ELISAs for MDMA.

IT 4764-17-4, MDA 82801-81-8, 3,4-Methylenedioxymethylamphetamine

RL: BSU (Biological study, unclassified); BIOL (Biological study)
(antibody cross-reactivity with; immunoassay, haptens,
reagents and kit for determining 3,4-methylenedioxymethamphetamine in body fluids)

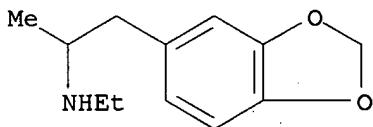
RN 4764-17-4 CAPLUS

CN 1,3-Benzodioxole-5-ethanamine, α -methyl- (9CI) (CA INDEX NAME)



RN 82801-81-8 CAPLUS

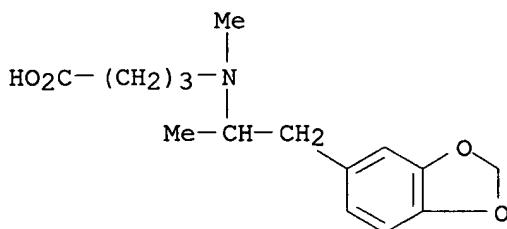
CN 1,3-Benzodioxole-5-ethanamine, N-ethyl- α -methyl- (9CI) (CA INDEX NAME)



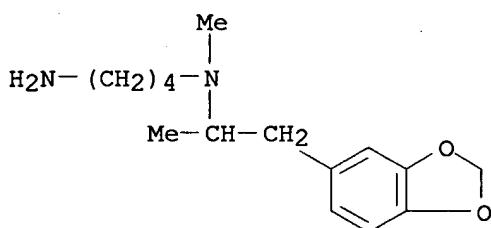
IT 547713-13-3P 547713-15-5P 547713-16-6P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(as hapten; immunoassay, haptens, reagents and kit for determining

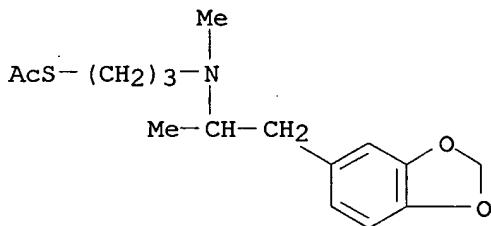
3,4-methylenedioxymethamphetamine in body fluids)
 RN 547713-13-3 CAPLUS
 CN Butanoic acid, 4-[2-(1,3-benzodioxol-5-yl)-1-methylethyl]methylamino]-
 (9CI) (CA INDEX NAME)



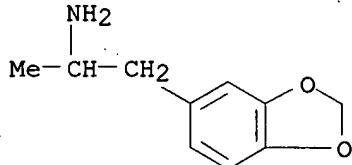
RN 547713-15-5 CAPLUS
 CN 1,4-Butanediamine, N-[2-(1,3-benzodioxol-5-yl)-1-methylethyl]-N-methyl-
 (9CI) (CA INDEX NAME)



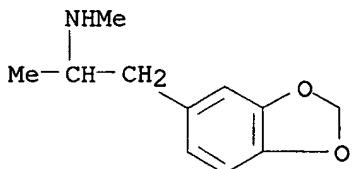
RN 547713-16-6 CAPLUS
 CN Ethanethioic acid, S-[3-[2-(1,3-benzodioxol-5-yl)-1-
 methylethyl]methylamino]propyl ester (9CI) (CA INDEX NAME)



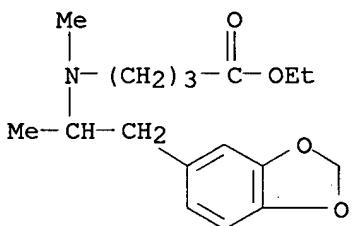
IT 4764-17-4D, Methylenedioxymethamphetamine, N-alkylated
 derivs.
 RL: ANT (Analyte); ANST (Analytical study)
 (immunoassay, haptens, reagents and kit for determining 3,4-
 methylenedioxymethamphetamine in body fluids)
 RN 4764-17-4 CAPLUS
 CN 1,3-Benzodioxole-5-ethanamine, α -methyl- (9CI) (CA INDEX NAME)



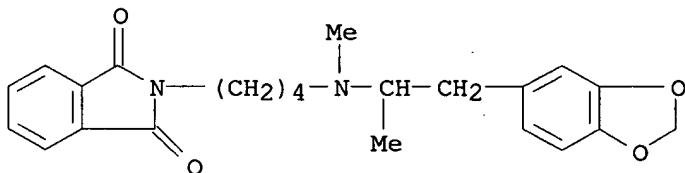
IT 42542-10-9P, 3,4-Methylenedioxymethamphetamine
RL: ANT (Analyte); SPN (Synthetic preparation); ANST (Analytical study);
PREP (Preparation)
(immunoassay, haptens, reagents and kit for determining 3,4-
methylenedioxymethamphetamine in body fluids)
RN 42542-10-9 CAPLUS
CN 1,3-Benzodioxole-5-ethanamine, N, α -dimethyl- (9CI) (CA INDEX NAME)



IT 547713-12-2P 547713-14-4P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(in preparation of hapten; immunoassay, haptens, reagents and kit for determining 3,4-methylenedioxymethamphetamine in body fluids)
RN 547713-12-2 CAPLUS
CN Butanoic acid, 4-[[2-(1,3-benzodioxol-5-yl)-1-methylethyl]methylamino]-, ethyl ester (9CI) (CA INDEX NAME)



RN 547713-14-4 CAPLUS
CN 1H-Isoindole-1,3(2H)-dione, 2-[4-[[2-(1,3-benzodioxol-5-yl)-1-methylethyl]methylamino]butyl]- (9CI) (CA INDEX NAME)



REFERENCE COUNT: 2 THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L19 ANSWER 4 OF 8 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 2002:155666 CAPLUS

DOCUMENT NUMBER: 136:162629

TITLE: Ecstasy-class analogs and use of same in detection of ecstasy-class compounds

INVENTOR(S): Rouhani, Riaz; Sanchez, Anthony De Jesus; Davoudzadeh, David; Coty, William A.; Vistica, Cynthia A.

PATENT ASSIGNEE(S): Microgenics Corporation, USA
SOURCE: Brit. UK Pat. Appl., 89 pp.

CODEN: BAXXDU

DOCUMENT TYPE:

Patent

LANGUAGE:

English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|---------------|------|----------|------------------|------------|
| GB 2361473 | A1 | 20011024 | GB 2001-5517 | 20010306 |
| GB 2361473 | B2 | 20040901 | | |
| DE 10111224 | A1 | 20020221 | DE 2001-10111224 | 20010308 |
| US 2003207469 | A1 | 20031106 | US 2003-457314 | 20030609 |
| | | | US 2000-521070 | A 20000308 |

PRIORITY APPLN. INFO.:

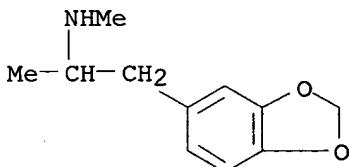
MARPAT 136:162629

AB The present invention provides a system for the improved **detection** of **ecstasy**-class compds. in biol. samples. New **ecstasy**-class analogs are provided for **detection** of such **ecstasy**-class drugs. These analogs are compds. or salts thereof, of a 2-amino-methylenedioxophenyl derivative attached to Z, where Z is a moiety capable of bonding, either directly or indirectly, with an immunogenic carrier, a **detectable label**, or a solid capture vehicle. Such analogs may be used to construct **immunogens**, enzyme or enzyme-donor conjugates, and other conjugates. The **immunogens** reproducible generate **antibodies** with an exquisite ability to distinguish various **ecstasy**-class drugs in biol. samples from potentially interfering substances. The specific **antibodies** and conjugates may be used to distinguish and measure various **ecstasy**-class compds. in biol. samples, such as those obtained from an individual suspected of substance abuse. In another aspect, the invention includes certain reagents, reagent combinations, and kits for performing assay methods for **ecstasy**-class compds. in a biol. sample.

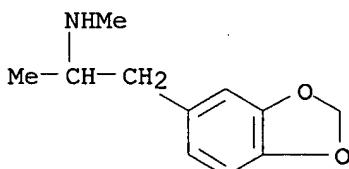
IT 42542-10-9, Ecstasy 42542-10-9D,
Ecstasy, analogs 82801-81-8, N-Ethyl-3,4-methylenedioxymphetamine

RL: ANT (Analyte); ANST (Analytical study)
(**ecstasy**-class analogs and use of same in **detection** of **ecstasy**-class compds.)

RN 42542-10-9 CAPLUS

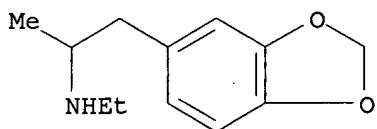
CN 1,3-Benzodioxole-5-ethanamine, N, α -dimethyl- (9CI) (CA INDEX NAME)

RN 42542-10-9 CAPLUS

CN 1,3-Benzodioxole-5-ethanamine, N, α -dimethyl- (9CI) (CA INDEX NAME)

RN 82801-81-8 CAPLUS

CN 1,3-Benzodioxole-5-ethanamine, N-ethyl- α -methyl- (9CI) (CA INDEX NAME)

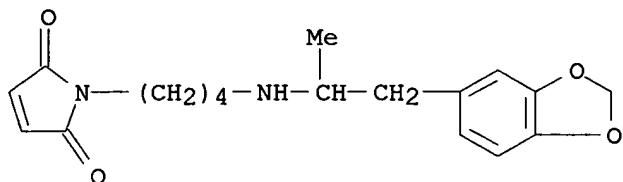


IT 397334-21-3P

RL: BSU (Biological study, unclassified); PRP (Properties); RCT (Reactant); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent)
(ecstasy-class analogs and use of same in **detection** of ecstasy-class compds.)

RN 397334-21-3 CAPLUS

CN 1H-Pyrrole-2,5-dione, 1-[4-[[2-(1,3-benzodioxol-5-yl)-1-methylethyl]amino]butyl]- (9CI) (CA INDEX NAME)

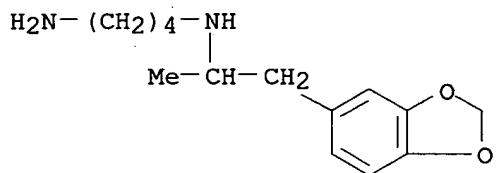


IT 397334-20-2P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(ecstasy-class analogs and use of same in **detection** of ecstasy-class compds.)

RN 397334-20-2 CAPLUS

CN 1,4-Butanediamine, N-[2-(1,3-benzodioxol-5-yl)-1-methylethyl]- (9CI) (CA INDEX NAME)

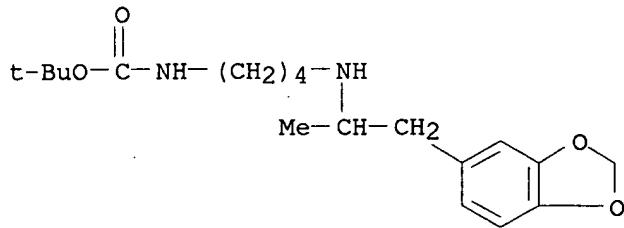


IT 397334-19-9P

RL: SPN (Synthetic preparation); PREP (Preparation)
(ecstasy-class analogs and use of same in **detection** of ecstasy-class compds.)

RN 397334-19-9 CAPLUS

CN Carbamic acid, [4-[[2-(1,3-benzodioxol-5-yl)-1-methylethyl]amino]butyl]-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)



L19 ANSWER 5 OF 8 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1994:127568 CAPLUS

DOCUMENT NUMBER: 120:127568

TITLE: Dual analyte immunoassay for **amphetamine** and **methamphetamine**

INVENTOR(S): Ordóñez, Kathy Palmer; Salamone, Salvatore Joseph

PATENT ASSIGNEE(S): F. Hoffmann-La Roche A.-G., Switz.

SOURCE: Eur. Pat. Appl., 12 pp.

CODEN: EPXXDW

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|--|--------------------------------|--|---|--|
| EP 574782 | A2 | 19931222 | EP 1993-109091 | 19930607 |
| EP 574782 | A3 | 19940209 | | |
| EP 574782 | B1 | 19981021 | | |
| R: BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LI, LU, NL, PT
CA 2096495
CA 2096495
ES 2123589
JP 06094711
JP 2726793
US 5501987 | AA
C
T3
A2
B2
A | 19931217
20020709
19990116
19940408
19980311
19960326 | CA 1993-2096495
ES 1993-109091
JP 1993-143841
US 1994-258125
US 1992-899196 | 19930518
19930607
19930615
19940610
A 19920616 |

PRIORITY APPLN. INFO.:

OTHER SOURCE(S): MARPAT 120:127568

AB A dual analyte immunoassay for the **detection of amphetamine** and **methamphetamine** is provided in which only one labeled binding partner is used which can interact with the combination of **antibodies** and their corresponding analytes **detecting** the presence of the analytes either alone or in combination. The binding partner is a labeled derivative of one of the analytes capable of binding to both **antibodies** with different affinity. Preparation of an amphetamine derivative **label**, a BSA conjugate, and microparticles sensitized with the conjugate are described. A standard curve for the assay is included, as are cross-reactivity data for **amphetamine-related drugs**.

IT 4764-17-4, Methyleneedioxyamphetamine 42542-10-9

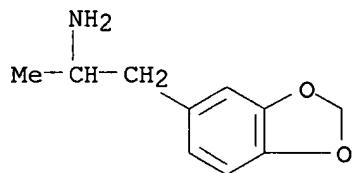
, Methylenedioxymethamphetamine

RL: ANST (Analytical study)

(cross-reactivity of, in **amphetamine/methamphetamine** immunoassay with single labeled analyte derivative)

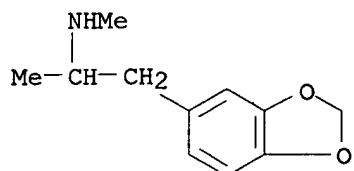
RN 4764-17-4 CAPLUS

CN 1,3-Benzodioxole-5-ethanamine, α -methyl- (9CI) (CA INDEX NAME)



RN 42542-10-9 CAPLUS

CN 1,3-Benzodioxole-5-ethanamine, N, α -dimethyl- (9CI) (CA INDEX NAME)



L19 ANSWER 6 OF 8 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1992:147517 CAPLUS

DOCUMENT NUMBER: 116:147517

TITLE: Phencyclidine and phencyclidine metabolite assays, tracers, **immunogens**, **antibodies** and reagent kit

INVENTOR(S): Dubler, Robert Edward; Frintner, Mary Pat; Grote, Jonathan; Hawksworth, David James; Nam, Daniel S.; Wray, Larry Kay; Hadley, Gregg Allen; Hopkins, Hal Dayton; Ungemach, Frank S.

PATENT ASSIGNEE(S): Abbott Laboratories, USA

SOURCE: Eur. Pat. Appl., 34 pp.

CODEN: EPXXDW

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 2

PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|---|------|----------|-----------------|-------------|
| EP 459387 | A2 | 19911204 | EP 1991-108674 | 19910528 |
| EP 459387 | A3 | 19920902 | | |
| EP 459387 | B1 | 19950920 | | |
| R: AT, BE, CH, DE, ES, FR, GB, IT, LI, NL | | | | |
| US 5155212 | A | 19921013 | US 1990-529988 | 19900529 |
| AU 9177272 | A1 | 19911205 | AU 1991-77272 | 19910522 |
| AU 643524 | B2 | 19931118 | | |
| CA 2043372 | AA | 19911130 | CA 1991-2043372 | 19910528 |
| AT 128241 | E | 19951015 | AT 1991-108674 | 19910528 |
| ES 2080188 | T3 | 19960201 | ES 1991-108674 | 19910528 |
| JP 04235199 | A2 | 19920824 | JP 1991-125955 | 19910529 |
| US 5407834 | A | 19950418 | US 1992-831762 | 19920427 |
| PRIORITY APPLN. INFO.: | | | US 1990-529988 | A 19900529 |
| | | | US 1986-866193 | B2 19860521 |

OTHER SOURCE(S): MARPAT 116:147517

AB The present invention is directed to a fluorescence polarization assay for phenylcyclidine and phenylcyclidine derivs., to the various components needed for preparing and carrying out such an assay, and to methods of making these components. Specifically, tracers, **immunogens** and (monoclonal) **antibodies** are disclosed, as well as methods for making them, and a reagent kit containing them. The tracers and the

immunogens are made from substituted phencyclidine compds. A fluorescein moiety is included in the tracer, while a poly(amino acid) forms a part of the **immunogen**. The assay is conducted by measuring the degree of polarization retention of plane polarized light that has been passed through a sample containing antiserum and tracer. The assay has a high degree of specificity for phencyclidine and metabolites and analogs thereof, while minimizing mass reactivity to a host of other synthetic metabolites and naturally occurring compds.

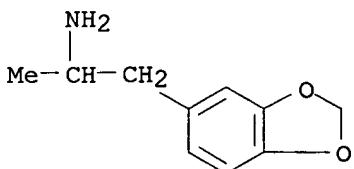
IT 4764-17-4 42542-10-9 82801-81-8

RL: ANST (Analytical study)

(phencyclidine fluorescence polarization immunoassay crossreactivity to)

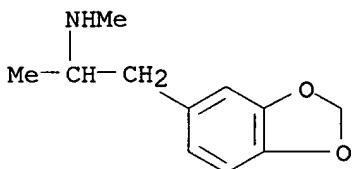
RN 4764-17-4 CAPLUS

CN 1,3-Benzodioxole-5-ethanamine, α -methyl- (9CI) (CA INDEX NAME)



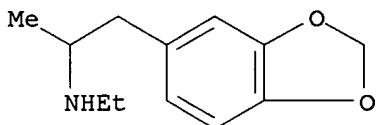
RN 42542-10-9 CAPLUS

CN 1,3-Benzodioxole-5-ethanamine, N, α -dimethyl- (9CI) (CA INDEX NAME)



RN 82801-81-8 CAPLUS

CN 1,3-Benzodioxole-5-ethanamine, N-ethyl-alpha-methyl- (9CI) (CA INDEX NAME)



L19 ANSWER 7 OF 8 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1991:577279 CAPLUS

DOCUMENT NUMBER: 115:177279

TITLE: Reagents, methods, and kits for an amphetamine-class fluorescence polarization immunoassay

INVENTOR(S): Brynes, Paul Jeffrey; Johnson, Donald Duane; Molina, Cynthia Martha; Flentge, Charles Arthur; Jonas, Patrick F.

PATENT ASSIGNEE(S): Abbott Laboratories, USA

SOURCE: Eur. Pat. Appl., 30 pp.

CODEN: EPXXDW

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|------------------------|------|----------|-----------------|-------------|
| EP 399184 | A2 | 19901128 | EP 1990-106319 | 19900403 |
| EP 399184 | A3 | 19911227 | | |
| EP 399184 | B1 | 19950913 | | |
| R: DE, ES, FR, IT | | | | |
| US 5101015 | A | 19920331 | US 1989-335627 | 19890410 |
| ES 2079390 | T3 | 19960116 | ES 1990-106319 | 19900403 |
| JP 02300663 | A2 | 19901212 | JP 1990-93823 | 19900409 |
| JP 2894782 | B2 | 19990524 | | |
| CA 2014318 | AA | 19901010 | CA 1990-2014318 | 19900410 |
| CA 2014318 | C | 20000808 | | |
| US 5248791 | A | 19930928 | US 1992-820729 | 19920114 |
| US 5354693 | A | 19941011 | US 1993-83928 | 19930629 |
| PRIORITY APPLN. INFO.: | | | US 1989-335627 | A 19890410 |
| | | | US 1992-820729 | A3 19920114 |

OTHER SOURCE(S): MARPAT 115:177279

AB A fluorescence polarization immunoassay (FPIA) for detecting the presence of ≥ 1 amphetamine-class analytes in a test sample is provided. The immunoassay uses competition between the analyte and a fluorescently labeled tracer for the binding site on an antibody specific for phenethylamine derivs. The concentration of amphetamine-class analyte in the sample dets. the amount of tracer that binds to the antibody. The amount of tracer/ antibody complex formed can be quant. measured and is inversely proportional to the quantity of analyte in the test sample. Also provided are tracers, immunogens used to elicit antibodies for use as assay reagents, and assay kits incorporating these tracers and assay reagents. Thus, N-tert-butoxycarbonyl-N-carboethoxymethyl-d,l-amphetamine was prepared and used to prepare a N-carboxymethyl-d,l-amphetamine-albumin conjugate for use as immunogen.

Synthesis of N-acetamidomethylfluorescein-d,l-amphetamine for use as a tracer is described, as is preparation of other tracers and immunogenic conjugates. The FPIA and reagents of the invention had sufficient cross-reactivity to detect amphetamine-class drugs at concns. which produce a stimulating or toxic effect. At the same time, concns. of phenethylamine-like substances common in certain foods (e.g. tryptamine and tyramine) were not readily detected. Pretreatment of test samples with riboflavin-binding protein decreased the background intensity of the samples.

IT 4764-17-4, 3,4-Methylenedioxymethamphetamine

42542-10-9, 3,4-Methylenedioxymethamphetamine

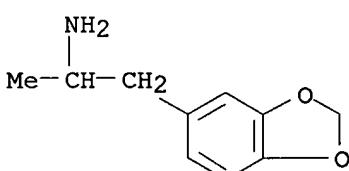
82801-81-8, N-Ethyl-3,4-Methylenedioxymethamphetamine

RL: ANT (Analyte); ANST (Analytical study)

(detection of, by fluorescence-polarization immunoassay)

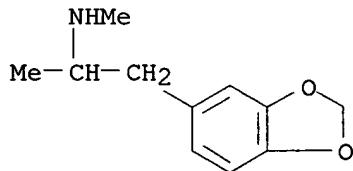
RN 4764-17-4 CAPLUS

CN 1,3-Benzodioxole-5-ethanamine, α -methyl- (9CI) (CA INDEX NAME)



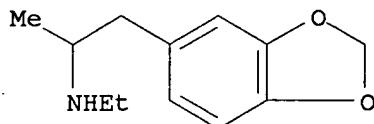
RN 42542-10-9 CAPLUS

CN 1,3-Benzodioxole-5-ethanamine, N, α -dimethyl- (9CI) (CA INDEX NAME)



RN 82801-81-8 CAPLUS

CN 1,3-Benzodioxole-5-ethanamine, N-ethyl- α -methyl- (9CI) (CA INDEX NAME)



L19 ANSWER 8 OF 8 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1991:464728 CAPLUS

DOCUMENT NUMBER: 115:64728

TITLE: Method, tracers, and reagents for immunochemical detection of **amphetamine** and/or d-**methamphetamine** or other phenethylamines in biological samples

INVENTOR(S): Heiman, Daniel Feulner; Hsiang-Yun, Yang Hu; Johnson, Sharon Ann

PATENT ASSIGNEE(S): Abbott Laboratories, USA

SOURCE: Eur. Pat. Appl., 49 pp.

CODEN: EPXXDW

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

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|---|---------------------------------|--|--|--|
| EP 371253 | A2 | 19900606 | EP 1989-119701 | 19891024 |
| EP 371253 | A3 | 19900620 | | |
| EP 371253 | B1 | 19950913 | | |
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ES 2079368
AU 8943807
AU 634985
CA 2001696
JP 02170050
US 5262333 | T3
A1
B2
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A | 19960116
19900503
19930311
19900428
19900629
19931116 | ES 1989-119701
AU 1989-43807
CA 1989-2001696
JP 1989-281627
US 1992-898238
US 1988-265361 | 19891024
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19920612
A 19881028 |

PRIORITY APPLN. INFO.:

OTHER SOURCE(S): MARPAT 115:64728

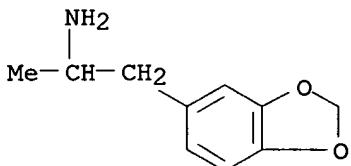
GI

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

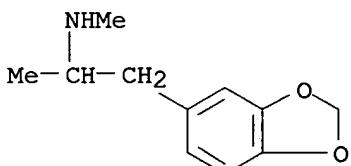
AB The title method, reagents, and tracers are used for determining **amphetamine** (I) and d-**methamphetamine** (II) in a biol. fluid, e.g. urine. The method can also detect certain "designer drugs", e.g. 3,4-methylenedioxymethamphetamine. An improved

fluorescence polarization immunoassay is provided for determining I and II in a single assay. The procedure includes pretreatment of the biol. sample with (1) aqueous IO₄⁻ solution to eliminate cross-reactants, e.g. hydroxyphenethylamine, and (2) riboflavin-binding protein to reduce fluorescence interference from riboflavin. Also provided are tracer compds., e.g. III (Q = fluorescein or fluorescein derivative; Z = NH, CO, SO₂; R = linking group including ≤5 heteroatoms and a total of 0-15 C atoms and heteroatoms); preparation of the tracer compds. is described. An automatic assay apparatus and kit for performing the method of the invention are also described, as is the preparation of immunogens for production of antibodies for the immunoassay. Thus, tracers IV and V were prepared and used in an immunoassay for determination of I and II. Cross-reactivity of the immunoassay for tyramine was apprx. 0.4% and for l-methamphetamine was <5%.

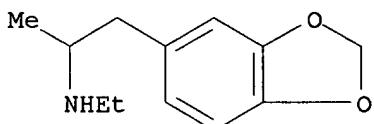
IT 4764-17-4, 3,4-Methylenedioxymphetamine
 42542-10-9, 3,4-Methylenedioxymethamphetamine
 82801-81-8
 RL: ANT (Analyte); ANST (Analytical study)
 (determination of, by fluorescence polarization immunoassay)
 RN 4764-17-4 CAPLUS
 CN 1,3-Benzodioxole-5-ethanamine, α-methyl- (9CI) (CA INDEX NAME)



RN 42542-10-9 CAPLUS
 CN 1,3-Benzodioxole-5-ethanamine, N,α-dimethyl- (9CI) (CA INDEX NAME)



RN 82801-81-8 CAPLUS
 CN 1,3-Benzodioxole-5-ethanamine, N-ethyl-α-methyl- (9CI) (CA INDEX NAME)



=> FIL REGISTRY

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

FULL ESTIMATED COST

ENTRY

SESSION

66.52

728.82

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)

SINCE FILE

TOTAL

CA SUBSCRIBER PRICE

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STRUCTURE FILE UPDATES: 6 APR 2005 HIGHEST RN 848027-68-9
DICTIONARY FILE UPDATES: 6 APR 2005 HIGHEST RN 848027-68-9

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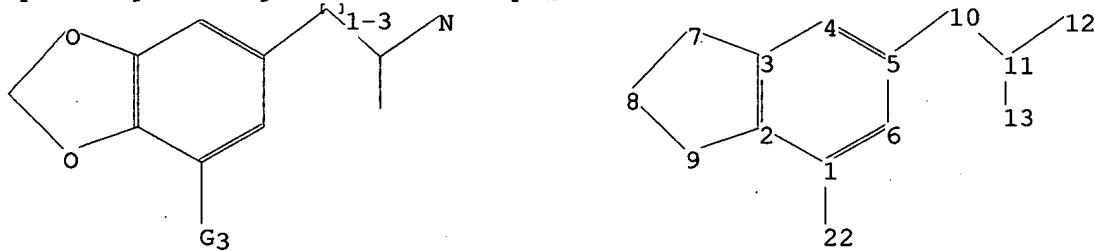
*
* The CA roles and document type information have been removed from *
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* effective March 20, 2005. A new display format, IDERL, is now *
* available and contains the CA role and document type information. *
*

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<http://www.cas.org/ONLINE/DBSS/registryss.html>

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Uploading C:\Program Files\Stnexp\Queries\10736018d.str



chain nodes :
10 11 12 13 22
ring nodes :
1 2 3 4 5 6 7 8 9
chain bonds :
1-22 5-10 10-11 11-12 11-13
ring bonds :
1-2 1-6 2-3 2-9 3-4 3-7 4-5 5-6 7-8 8-9
exact/norm bonds :
1-22 11-12
exact bonds :
2-9 3-7 5-10 7-8 8-9 10-11 11-13
normalized bonds :
1-2 1-6 2-3 3-4 4-5 5-6
isolated ring systems :

containing 1 :

G1:H,CH3,Et

G2:CH3,Et,H

G3:O,S,N

Hydrogen count :

1:= exact 1 4:= exact 1 6:= exact 1 8:= exact 2 10:= exact 2 11:= exact 1

13:= exact 3

Match level :

1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:CLASS
11:CLASS 12:CLASS 13:CLASS 22:CLASS

L20 STRUCTURE UPLOADED

=> s 120

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SAMPLE SCREEN SEARCH COMPLETED - 9 TO ITERATE

100.0% PROCESSED 9 ITERATIONS
SEARCH TIME: 00.00.01

0 ANSWERS

FULL FILE PROJECTIONS: ONLINE **COMPLETE**
BATCH **COMPLETE**
PROJECTED ITERATIONS: 9 TO 360
PROJECTED ANSWERS: 0 TO 0

L21 0 SEA SSS SAM L20

=> s 121 sss full
FULL SEARCH INITIATED 12:55:00 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 144 TO ITERATE

100.0% PROCESSED 144 ITERATIONS
SEARCH TIME: 00.00.01

0 ANSWERS

L22 0 SEA SSS FUL L20

=> FIL CAPLUS

COST IN U.S. DOLLARS

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ENTRY

TOTAL
SESSION

FULL ESTIMATED COST

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890.15

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)

SINCE FILE
ENTRY

TOTAL
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CA SUBSCRIBER PRICE

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-5.84

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FILE LAST UPDATED: 6 Apr 2005 (20050406/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

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L23 0 L22

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